21374 S/194/61/000/009/005/053 D209/D302

Applying semiconductor rectifiers...

stant component of magn. field ($H_0 = 0$), in the presence of constant component of magnetic field ($H_0 \neq 0$) is calculated and the value of value of the rectified current in the indicating winding is derived. It is shown that with $H_0 = 0$, the e.m.f. in the winding is

$$c = A(\mu_a - \mu_b) \frac{dH_{\sim}}{dt}$$
,

1

where $A = S \cdot n_2 \cdot 10^{-2}$; $\mu_a = \frac{dB_a}{dH_{\sim}}$; $\mu_b = \frac{dB_b}{dH_{\sim}}$.

The e.m.f. contains only odd harmonics. It is shown that with $H_0 \neq 0$ even harmonics appear in the e.m.f. 1, whose polarity is totally determined by that of the constant component of the field H_0 . An analytical expression for the e.m.f. is derived for this case. The shapes of curves of e.m.f. with $H_0 = 0$, $H_0 > 0$ and $H_0 < 0$ are given. An analysis of the operation of the phase-sensitive circuit is carried out, including calculation of the rms value of the current I

Card 2/3

Applying semiconductor rectifiers...

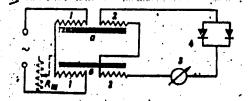
21374 S/194/61/000/009/005/053 D209/D302

in the indicating circuit which is measured by an electro-magnetic instrument 3 and is expressed as follows:

$$I = E_1 \left(\frac{1}{r_{b2} + r_o} - \frac{1}{r_{b1} + r_o} \right).$$

where r_{b1} and r_{b2} - differential resistances of the symmetrical non-linear resistance 4: r_o - resistance of the instrument 3. 3 figures. Abstracter's note: Complete translation

Fig.



Card 3/3

87895

3,9100

S/126 '60/010/003/004/009/xx E192/E382

AUTHORS:

Drozhzhina, V.I., Zatsepin, N.N., Ponomarev, Yu.F.,

Fridman, L.A., Shturkin, D.A. and Yanus, R.I.

TITLE:

Theory of Ferroprobes with Longitudinal Symmetrical

Saturation Excitation

PERIODICAL: Fizika metallov i metallovedeniye, 1960, Vol. 10, No. 3, pp. 359 - 366

TEXT: Aschenbrenner and Goubau (Ref. 1) described in 1936 a new highly sensitive method of measuring the potential of the magnetic field by means of nonlinear magnetic elements, ferroprobes, and they used these for measuring the fluctuations of the magnetic field of the Earth. The theory of such probes was developed more thoroughly in subsequent work of German and Soviet authors (Refs. 2-11), including the authors of this paper, for the case of a uniform DC field. Mikhaylovskiy and Spektor (Ref. 12) dealt with the operation of these probes in a nonuniform field. Considerable progress has been made in the techniques of applying them and as a result of this, highly sensitive magnetometers with very fast response are Card 1/12

s/126/60/010/003/004/009/xx

Theory of Ferroprobes with Longitudinal Symmetrical Saturation Excitation

available, for instance - for investigating the short-period variations of the magnetic field of the Earth, for searching for mineral deposits by means of aeromagnetic prospecting methods, etc. Furthermore, small-size instruments for measuring local values and gradients of highly nonuniform fields (magnetic flaw detectors for detecting invisible cracks in ferromagnetics), an automatic apparatus for various magnetic measurements, etc. have also been built. In spite of that, a large portion of the practically important problems has to be solved by means of inefficient purely empirical approach. since the theory of these probes is either insufficiently accurate or insufficiently general. In this paper the following problems are formulated and partly solved: 1) taking into consideration more accurately the field of magnetic charges of the core and the eddy-current field in it; 2) taking into consideration more accurately the possible nonuniformity of the

Card 2/12

87698

S/126/60/010/003/004/009/XX E192/E382

Theory of Ferroprobes with Longitudinal Symmetrical Saturation Excitation

measured field; 3) taking into consideration the influence of the deformation in the initial sections of the hysteresis loop caused by the effect of the measured field. The calculations are made on the basis of the following limitations and assumptions: a) the field to be measured is much smaller than the maxima of the excitation field; b) the influence of magnetic viscosity and after-effects is disregarded; the no-load condition is investigated. It is assumed that the core of the ferro-element is in the form of a solid of revolution and that its axis is taken as the axis 0X; a certain point 0 on this axis is taken as the origin of the coordinates. The distance between an arbitrary point and the axis revolution is denoted as r and the radius of the lateral surface of the core on its crosssection by a coordinate x is denoted as $r_0(x)$. core carries an excitation winding supplied with a current Card 3/12

S/126/60/010/003/004/009/XX E192/E382

THE PROPERTY OF A PROPERTY OF THE PARTY OF T

Theory of Ferroprobes with Longitudinal Symmetrical Saturation Excitation

which changes with time t between two limit values I_{C_1} , the changes being monotonic and symmetrical, i.e. $i_{\mathcal{O}}(t) = -i_{\mathcal{O}}(t + T/2)$, where T is the period of the excitation current. The current produces an excitation field $H_{\mathcal{O}}(x, t)$. The portion of the core between x = a and x = b is surrounded by a search winding which has $n_{u}(x)$ turns per unit length; the output terminals of this winding are connected to a very large resistance so that it can be assumed that the current in this winding is very small (open-circuit operation). The core is situated in the measured field $H_{u}(x)$. The field of eddy currents induced in the core is $H_{u}(x, t)$ and the field of magnetic charges in the core is $H_{u}(x, t)$. The core is assumed to be so thin that

87898 \$/126/60/010/003/004/009/XX E192, ...382

Theory of Ferroprobes with Longitudinal Symmetrical Saturation Excitation

the nonhomogeneities of the fields $H_{\tilde{j}}$, $H_{\tilde{n}}$ and $H_{\tilde{j}}$ in the transverse direction can be neglected. The vector of the magnetic induction is B and the total magnetic field is $H = H_{\tilde{0}} + H_{\tilde{n}} + H_{\tilde{0}} + H_{\tilde{0}}$. The electromotive force induced in the search winding is given by:

$$e = -2ii \int_{a}^{b} n_{u} dx \int_{0}^{c} \frac{dB}{dt} r dr \qquad (1) .$$

From Eq. (1) it follows that:

Card 5/12

67898 S/126/60/010/003/004/009/XX E192/E382

Theory of Ferroprobes with Longitudinal Symmetrical Saturation Excitation

$$\varepsilon = e - e^{0} = -2\pi \int_{a}^{b} n_{u} dx \int_{0}^{c} \frac{d(B - B^{0})}{dt} r dr$$
 (2).

Eq. (2) can be written in a different form by taking into account the following property of the magnetisation curves of ferromagnetics. It is known from experiments (Refs. 13, 14) that if H varies monotonically between two limiting values $^{\rm H}_{\rm A}$ and $^{\rm H}_{\rm B}$, which fulfil the inequalities:

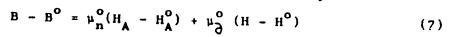
$$H_A < -H_K; H_B > H_K$$
 (3)

the terminal portions of the ascending and descending branches of the magnetisation loop follow the branches of the limiting magnetisation loop; H_{K} in Eqs. (3) is a constant of the Card 6/12

87898 S/126/60/010/003/004/009/XX E192/E382

Theory of Ferroprobes with Longitudinal Symmetrical Saturation Excitation

material which is slightly higher than its coercive force. The situation is illustrated in Fig. 1. Consequently, the loops B(H) can be uniquely determined by H_A and H_B . The magnetic inductance for the ascending and descending loops can be expressed by means of the Taylor series. If H_n is comparatively small, it is sufficient to consider only the first-order terms of these series. Consequently, the difference in the magnetic induction can be expressed by:



where

$$\mu_{\partial}^{o} = \left(\frac{\partial B^{o}}{\partial H^{o}}\right)_{H=H^{o}}$$
 is the differential permeability

Card 7/12

- P-4 con a reprincipal coloredor a

67898

S/126/60/010/003/004/009/XX E192/E382

Theory of Ferroprobes with Longitudinal Symmetrical Saturation Excitation

at
$$H = H^0$$
 and $\mu_n^0 = \left(\frac{\partial B}{\partial H_A}\right)_{H=H^0}$

It is now necessary to express the variables of Eq. (7) in terms of H_n . This problem can be solved accurately only for the case when H_n and H_n are homogeneous over the whole volume of the core and the core is in the form of an ellipsoid whose thickness is so small that $H_n = 0$. In this case, Eq. (7) can be written as:

Card 8/12

87898 S/126/60/010/003/004/009/XX E192/E382

Theory of Ferroprobes with Longitudinal Symmetrical Saturation Excitation

$$B - B^{o} = \frac{4\pi H_{n} [(4\pi - N)(\mu_{\partial}^{o} - \mu_{n}^{o}) + \mu_{\partial}^{o} \mu_{\partial AK}^{o} N)}{(4\pi - N + \mu_{\partial}^{o} N)(4\pi - N + \mu_{\partial AK}^{o} N)}$$
(11)

where N is the demagnetisation coefficient of the core and $\mu^{O}_{\mbox{\scriptsize ∂AK$}}$ is defined by:



$$B_{A} - B_{A}^{O} = \mu_{\partial AK}^{O} \quad (H_{A} - H_{A}^{O}) \tag{10}$$

Eq. (2) can now be written as:

Card 9/12

67698 S/126/60/010/003/004/009/XX E192/E382

Theory of Ferroprobes with Longitudinal Symmetrical Saturation Excitation

$$\varepsilon = AH_nf(t); \quad A = 4m^2 \int_0^b n_u(x)r_o^2(x)dx$$
 (12).

In the general case it is necessary to consider three additional equations apart from Eq. (7). These equations (including Eq. 7) are linear and homogeneous with respect to all the unknowns and the parameters H_n . It follows, therefore, that in those cases when the fields H_n are geometrically similar, i.e. if they can be defined by:

$$H_{n} = K_{n}h_{n}(x) \tag{16}$$

Card 10/12

87898

S/126/60/010/003/004/009/XX E192/E382

COLUMN TO THE PROPERTY OF THE

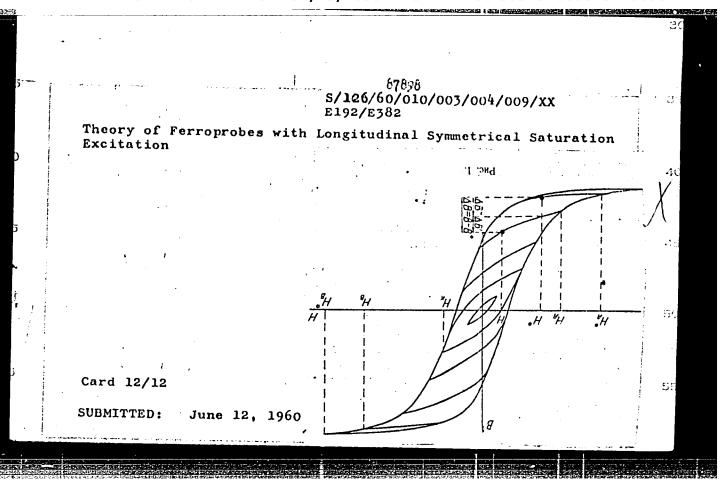
Theory of Ferroprobes with Longitudinal Symmetrical Saturation Excitation

where K_n is a coefficient independent of x_i , $\epsilon(t)$ will be of the same form and the scales of measurement will be determined by K_n . In those cases when not only the scale but also the form of $\epsilon(t)$ is varying, the quantitative comparison of various $H_n(x)$ can be determined from $\epsilon(t)$ only under certain limiting conditions. There are 2 figures and 17 references:

There are 2 figures and 17 references: 13 Soviet and 4 non-Soviet.

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of Physics of Metals of the AS, USSR)

Card 11/12



21802

9.2530

S/103/61/022/004/009/014 B116/B212

AUTHORS:

Kadochnikov, A. I., Fridman, L. A., Yanus, R. I. (Sverdlovsk)

TITLE:

Theory of the selective rectification of even numbered potential harmonics by using symmetrical non-linear electric

resistors

PERIODICAL:

Avtomatika i telemekhanika, v. 22, no. 4, 1961, 501-508

TEXT: In the present paper one of the circuits (Fig. 2) for selective rectification of even numbered potential harmonics is investigated. This is built with symmetrical non-linear resistors. The application of this circuit is shown in the output circuit of a ferro-probe (or a magnetic amplifier of a type with even numbered harmonics). In order to rate the sensitivity of such a ferro-probe a simple formula has been derived. Experimental data are brought that confirm the theoretical conclusions. A discontinuity near a certain point on the static characteristic of the symmetric non-linear resistors will have an essential influence on the sensitivity of this circuit. A circuit of symmetrical non-linear resistors which has been brought by R. Ya. Berkman (Ref. 9: "Fazovyy detektor na kratnyye Card 1/4

21802 S/103/61/022/004/009/014 B116/B212

CONCERNOUS CONTRACTOR CONTRACTOR

Theory of ...

chastoty." (Phase discriminator for multiple frequencies). Avtomatika i telemekhanika, v. 19, no. 4, 1958) is very advantageous in this respect. But his formula can only be applied to some special cases. This paper brings a sufficiently accurate and also simple solution for that circuit, its correctness has been proved by trial. It is shown that the constant component of the current flowing through the load resistance R_{R} will be proportional to the mean value of the sum of the even numbered harmonics which belong to the potential measured in the band width τ . The circuit investigated may also be used to rectify the even numbered harmonics of the emf generated in the output coil of the ferro-probe (or of a magnetic amplifier of the type with even numbered harmonics). The constant current component, which has been described above, is essentially a function of the load resistance $R_{\rm R}$ and the resistance $R_{\rm c}$ where the blocking potential originates. The sensitivity of the ferro-probe may be approximately calculated with the formula

 $\frac{\text{I}}{\text{H}_{\text{O}}} \approx -\frac{\text{nS} \mu_{\text{d·max}} \text{ f}}{\sqrt[3]{\text{R}_{\text{B}}^2 \left(\text{R}_{\text{G}} + \text{R}_{\text{O1}} \right)}}$ $(25)_{i}$ Card 2/4

20318

Theory of ...

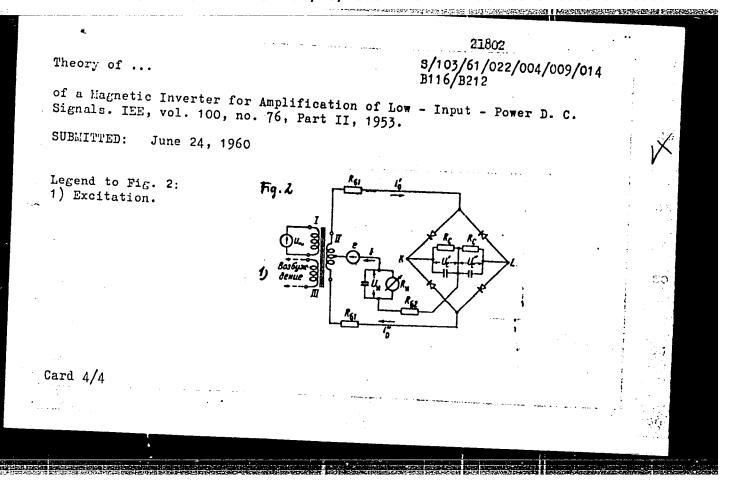
3/103/61/022/004/009/014 B116/B212

and the approximate calculation of the current gain for a magnetic amplifier having an equivalent output circuit may be done with

$$\frac{I}{I_o} \simeq -\frac{\frac{S}{1} n n_o \mu_{d\cdot max} f}{\sqrt{R_B^2 (\bar{R}_G + R_{G1})}}$$
(26)

where R₀₁ and R₀₂ denote the load resistances; R₀₁ contains half of the ohmic resistance of coil II; R̄_C represents a certain mean value of the resistance of the rectifier component; µ_d denotes the differential permeability of the core; n the number of turns of the indicator coil; S the area of the core cross section; f the exciting frequency; I the control current; n_O the number of turns of the control coil; l the length of the magnetic path of the core; H_O the "control" field. There are 7 figures, 1 table, and 9 references: 7 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: Miles I. G. Types of Magnetic Amplifiers Survey. Trans. AIEE, vol. 71, 1952; Frot-Smith E. H. The Study

Card 3/4



FRIDMAN, L.A.; FRANTSEVICH, V.M.; MOCHALOVA, G.L.

Metal probe magnetometer with self-adjustment by a magnetic amplifier. Fiz. met. i metalloved. 16 no.6:921-923 D '63. (MIRA 17:2)

1. Institut fiziki metallov AN SSSR.

TABACHNIK, V.P.; FRIDMAN, L.A.

Maximum dynamic differential permeability of highly permeable alloys. Fiz. met. i metalloyed. 17 no.2:217-222 F '64. (MIRA 17:2)

r.E

1. Institut fiziki metallov AN SSSR.

FRICANN L. A.
Category: USSR/Analytical Chemistry - Analysis of inorganic

G-2

substances.

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 31039

Author : Menkina M. M., Fridman L. A., Ganchel' L.E.

: not given Inst

: New Procedure for the Analysis of Nickel Baths Title

Orig Pub: Sb. Mashinostroitel' Belorussii, No 1 (2). Minsk, 1956, 115-116

Abstract: Description of a method for the determination of boric acid in

nickel electrolyte baths by titration with a solution of NaOH, to phenol-phthalein, in the presence of mannite. Ni is first removed by precipitation as hydroxide, by means of NaOH.

: 1/1 Card

-58-

SOV/137-57-6-11199

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 259 (USSR)

AUTHORS: Menkina, M.M., Fridman, L.A.

TITLE:

Photocolorimetric Determination of Copper in Aluminum Alloys (Fotokalorimetricheskoye opredeleniye medi v alyuminiyevykh

splavakh)

PERIODICAL: V sb.: Mashinostroitel' Belorussii. Nr 1 (2). Minsk, 1956, pp

119-120

ABSTRACT: 0.4 g of the specimen are placed into a 200 cc volumetric flask,

15 cc of 1:1 Hcl are added, and after one minute 3 cc of HNO3. The whole is boiled to a complete dissolution of the specimen. 100 cc $\rm H_2O$ and 40 cc $\rm NH_4OH$ are added, and the solution is diluted up to the mark. The first portion of the filtrate is discarded, the second is investigated on an FEK-M photoelectric colorimeter with a red light filter in a 20-cc cell. The calibration curve is drawn with the

aid of specimens of Al alloys with known Cu contents.

K.K.

Card 1/1

FEDERUNO, N.P.; SHCHUKIM, Yo.P.; FRIDIUM, L.A.

Production and use of glycerin in the U.S.A. Biul. teithn.-ekon.
inform. no.B:94-96 '58. (EURA 11:10)

(United States--Glycerol)

FEDORENKO, N.P.; FRIDMAN, L.A.; SHCHUKIN, Ye.P.

Production and uses of aromatic hydrocarbons in the U.S.A.
N.P.Fedorenko, L.A.Fridman, E.P.Shchukin. Khim. prom. no. 7:604612 O.N '60.

(Unites States-Hydrocarbons)

(Unites States-Hydrocarbons)

FEDORENNO, N.P.; FRIEMAN, L.A.; SHUMSKAYA, N.N.; SHCHUKIN, Ye.P.

Gertain problems related to the economics of the phenol production. Khim.prom. no.3:163-166 Mr '61.

(Phenols)

S/064/60/000/03/04/022 B010/B008

AUTHORS:

Fedorenko, N. P., Shchukin, Ye. P., Fridman, L. A.

TITLE:

On the Economy of Acetone Production

PERIODICAL:

Khimicheskaya promyshlennost', 1960, No. 3, pp. 202-204

TEXT: The further development of acetone production with respect to its most favorable economic aspects is discussed. An increase of acetone production by 4.5 times in the period from 1959 to 1965 is provided in the new Seven-year Plan, and the cumene method is to be used mainly. It is pointed out in connection therewith that the problem of the simultaneous production of phenol is of special importance. A comparison of the production of acetone and phenol by various methods (Table 1) shows that the cumene method is the most suitable one. This may also be seen from an explanation of the calculations of the production cost which is still inaccurate. Corresponding applications of acetone must be provided for, since a large increase in the production of phenol by the cumene method is also provided for, and the applications of acetone are becoming more and more numerous. Acetic anhydride can be produced by pyrolysis from

Card 1/2

On the Economy of Acetone Production

S/064/60/000/03/04/022 B010/B008

acetone and acetic acid. Although this method is not the most suitable one economically (Table 2), it is to be preferred to the other methods for various reasons. A treble use of acetone as a solvent in the production of cellulose ester is provided for 1965. Acetone is also increasingly applied in the synthetic materials industry. Calculations showed that, provided the increased demand for phenol in 1965, 1970, and 1975 be covered with the help of the cumene method, the consumption of the quantities of acetone produced is safeguarded. The production increase of phenol and acetone by the there are 2 tables.

Card 2/2

GOROKHOVSKIY, Ya.Yu. [Horokhovs'kyi, IA. IU.]; RITSLIN, V.A. [Rytslin, V.A.]; FRIDMAN, L.A.

Automatic device for flaying and piling of hides. Let. prom. no.2x60-61 Ap-Je 64 (MIFA 17x7)

FEDORENKO, N.P.; BRAGINSKIY, O.B.; FRIDMAN, L.A.; SHCHUKIN, Ye.P.

Economic effectiveness of the pyrolysis of low-octane gasolines.
Khim. prom. no.5:339-344 My '64. (MIRA 17:9)

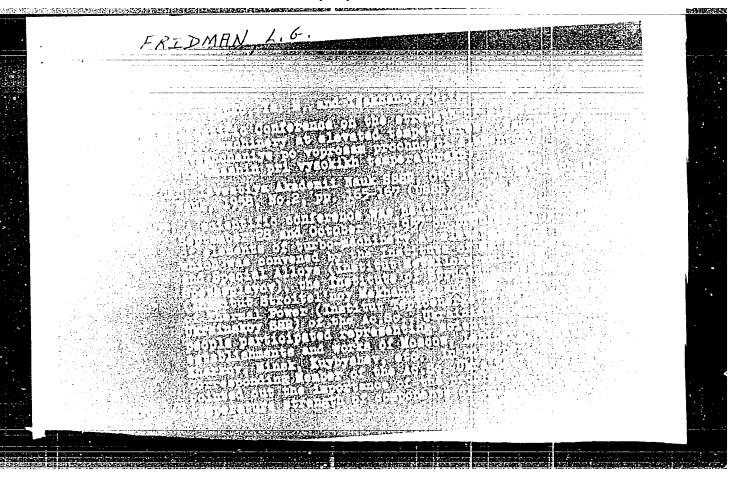
FRIDMAN, L. G. Cand. Toch. Sci.

Dissertation: "Comparative Investigation of the Bottoms of Thin-Walled Vessels."

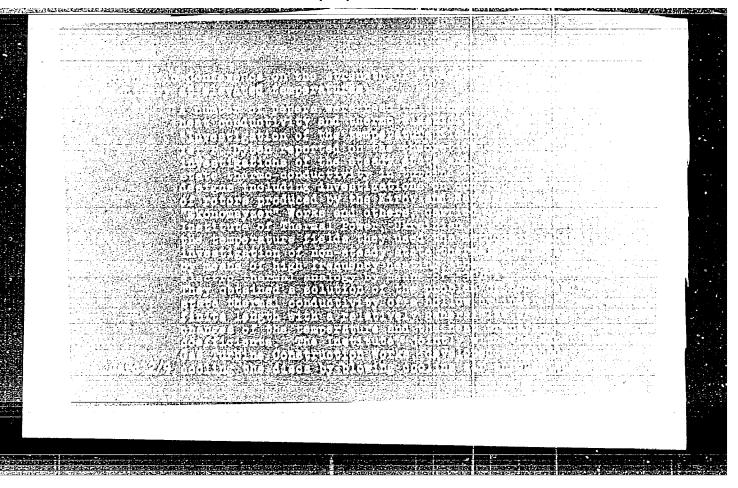
Moscow Inst of Chemical Machine Building, 27 Mar 47.

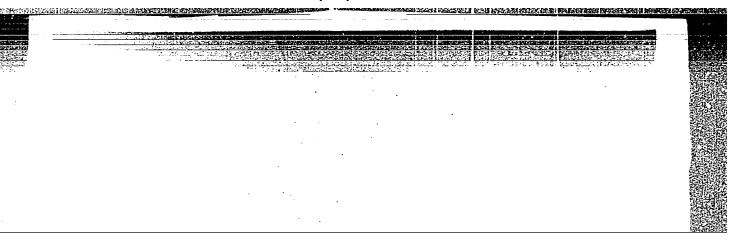
SO: Vechernyaya Moskva, Mar, 1947 (Project #17836)

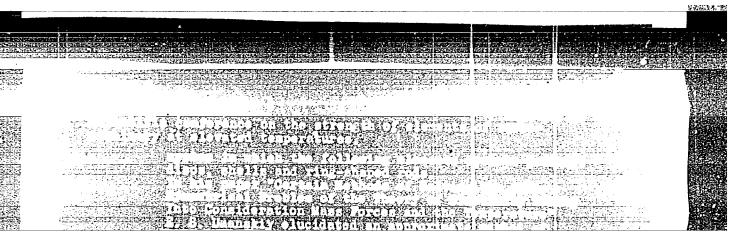
"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513720006-7

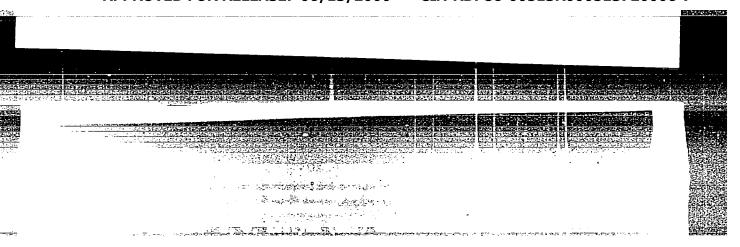


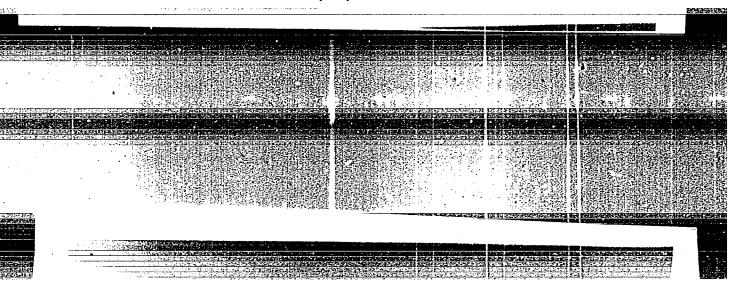
"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513720006-7



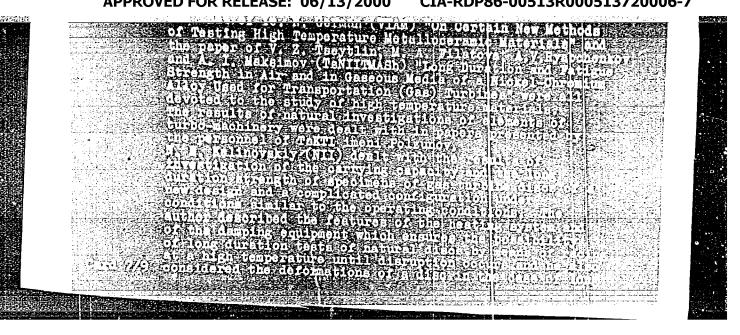




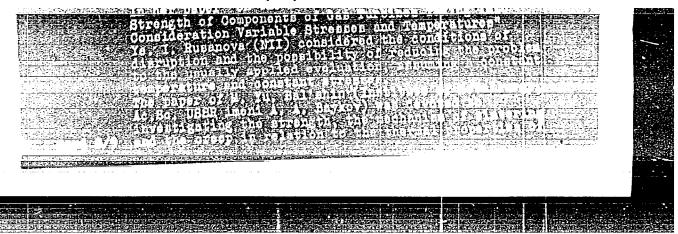


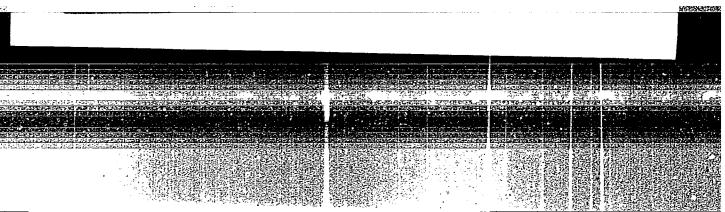


"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513720006-7



			and the same of th	1.1
			AND DESCRIPTION OF A PARTY AND	
			THE RESERVE TO SERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TO SERVE THE PERSON NAMED IN COLUMN TO	
· 大学文章 (1975年)	THE RESIDENCE OF THE PERSON OF	ROSE CONTRACTOR DE SUTEMA E	現る いつうさいしゅう マランス・バイン	
	CONTROL OF THE PROPERTY OF SAME AND ADDRESS OF THE PARTY.	TOTAL SCALE WICESAN STATE COURSE IN	At Security of the Atlantage of	
	MINISTER AND	100	A CONTRACTOR OF THE PARTY OF TH	Y - 7
		E287 200 11 11 11 11 11 11 11 11 11 11 11 11 1	141 141 141 141 141	the Contract of the Contract of
			188 a. O. T. Lauren and J. C.	
	Markey to the second	And the Tradition of the contract of the	6.0	100000
	建设在,在1970年,在1970年,1970年	わごさ ベニー ベー・さんごう	AGE 3 1000 1 10 10 10 10 10 10 10 10 10 10 10	
		The property of the same of th	Barrier Commission of the Comm	
	And the second second	### TOO TYPE ###############		
	25. 51. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	141 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	334545a, 1 34 334.	
20.1000 多见一点的话,这是我们的话,我们就是我们的话,我们就是我们的话,我们就是我们的话,我们就是我们的话,我们就是我们的话,我们就是我们的话,我们就是	Time P. 1 (2) 1 (2) 2 (2	化多类化物酶 化氯化二氯化二氯化		
15 4 5 6 6 6 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	建设的建筑设置的	(1) 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
	Trace of the second		1 12	
		the first of the section in the section in the		Control of the second second
	to the section of the section of	医囊膜结合 化二氯化二烷甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	or all the transfer of the second	
		まんし マロイ セチンタ アンボ		16.5
	STATE OF THE PARTY	八五月 李山 一下門 化二十二烷		2000
	不够无的婚姻 医罗马氏菌	All All All All Control of the Control of the		
2000年1000年1000年100日 1000年100日 1000年100日 1000日	Company of the Control of the Contro	まながんが はっぽうりょうてんかい	** #\$** * * * * *** <u>* * * * * * * * * * * *</u>	
		7 3 4 4 4 4 5 4 to 100 7 1 7 3		
		The second secon		
		The second second second		
	The second secon	Entropolities in the contract of the	高麗觀 医纤维 化二氯二甲酚 化二二二	
	ENDAL BALLETINA			
	2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	TO STATE OF CASE OF THE STATE OF THE		17.00
	THE R. P. LEWIS CO. P. LEWIS CO. LEW	4 4 5 F 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the state of t	
在1000000000000000000000000000000000000	4 12 4 4 4 4 5 - 1/2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1. B. 4. B. 1. B.	と増えたい はまたたく いっとう	
2. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17	and the second s	Carried And States of the	- A 12 + 4	
	FLANDANCE CO. P. S. S. T.	安堵 有种种的 有表点的第三人	は強調がはまる 大人士 さ	
	STATE OF THE PROPERTY OF THE P	在3-14-14-14-14-14-14-14-14-14-14-14-14-14-		
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		FA . FR A W	集権 yat 付ける ごんしかい いごう	
	Acres 1 P. C. T. Part 40 h	BONG I THE STATE OF THE STATE O	and the state of t	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	An appropriate the second seco	1 30. 20.	
	The second secon	C	and the second second	
是这些是是这种的,我们就是这种的,我们就是这种的,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	THE TAIL OF THE MENT OF THE PARTY OF THE	The same of The Carlot	and the second second	And the second
		Mark the second of the second	(B)	
before and after and meeting of Murbine Blades and at Elevated Temperatures I by with the method developed by	明日 次 世界 大学 日本 アー・アー・アー・アー・アー・アー・アー・アー・アー・アー・アー・アー・アー・ア	P. V. A. V. Land of the second		
性。然后的"连毛"的自己的连系统在在内部的特殊。"他们对一些自己!" ,他们是一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的		B. F. to Lawrence of the Control of	material for a section of the second section in the	
2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		to the first the same of the same of	and the second s	1 - 1 - 2 - 3
1996-1997 [1997] 1997 [1997] 1997 [1997] 1997 [1997] 1997 [1997] 1997 [1997] 1997 [1997] 1997 [1997] 1997 [199	THE PARTY OF THE P	据[[7]] 化医四氢甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	The state of the s	
。在1960年代,	1247 M 14-429 11: PM 1 PM 1 A	II . A . Same and the second	the state of the contract of t	
在自己的自己的自己的,但是是一个人,但是是一个人,他们就是一个人,他们就是一个人,他们就是一个人,他们就是一个人,他们就是一个人,他们就是一个人,他们就是一个人	Fig. 1. La Grand A. Dale Car. A.	(株式は、これをはない。これでは、大学をはなる。	折嘴猫 (空子に) さくじ はかき	
,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	GARAGE CONTRACTOR OF THE LOCK OF	255 2 T Take 1 1 1 1 1	P Contract of the second	
		型型工具工具工具工具工具工具工具工具工具工具工具工具工具工具工具工具工具工具工	territoria de la companya de la comp	1000
	2. A. C. A.	自己的自己的主义,不是是这个时间	经路帐 在一张 医多克特	- 1 - 7 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
the second secon	The second secon	المالية المتناعل المتناعد والمتناع المتناط	المناه ال	100
		Line and the same of the same	والمناب والمحاطون	
	Charles and the state of the st	BUT TO STATE OF THE PARTY OF TH	선명에 들어난 수 없는데 된다.	
。在1900年中,1900年中,1900年中,1900年中,1900年中,1900年中,1900年中,1900年中,1900年中,1900年中,1900年中,1900年中	MATERIAL TO A PARTY NICH OF T	A CHARLES BE SEEN AS	ekaraturu selelili ilgili.	27 State 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2





ACC NR: AR5030400

(N)

SOURCE CODE: UR/0124/66/000/005/VC13/V013

AUTHOR: Fridman, L. I.

TITLE: Temperature stresses in the casing of a ring-shaped combustion chamber

SOURCE: Ref. zh. Mekhanika, Abs. 6V95

REF SOURCE: Tr. Kuybyshevsk. aviats. in-t, vyp. 19, 1965, 299-306

TOPIC TAGS: thermoelasticity, shell theory

TRANSLATION: General equations of thermoelasticity are introduced for a thin-walled circular cylinder heated nonuniformly in a circular direction and in the direction of the axis of the shell. An approximate method is given for a temperature field which changes only along the generating element, to determine heat stresses and displacements without considering boundary effects. The problem of thermoelastic stresses is studied in a casing of a ring-shaped combustion chamber, the temperature field of which is

APPROVED FOR RELEASE, 06/13/2000

CIA-RDP86-00513R000513720006-7"

Here α , β are dimensionless coordinates of the points of the mean surface; t_0 , k, n are parameters which depend on the structural characteristics of the chamber. A com-

Card 1/2

	the shell. siderable in	n is made for It is shown ncrease in tem	that rigid perature st	on chamber u sealing of resses. L.	nder various the ends of A. Shapoval	s boundary con the chamber] lov.	idi- eads
	710						
					•		
						•	
				•			
					•		
d 2/2							

FRIDMAN, L. I.

1個情報

20

PHASE I BOOK EXPLOITATION

SOV/6086

Nauchnoye soveshchaniye po teplovym napryazheniyam v elementakh turbomashin. 2d, Kiyev, 1961.

Teplovyye napryazheniya v elementakh turbomashin; doklady nauchnogo soveshchaniya., vyp. 2 (Thermal Stresses in Turbomachine Parts; Reports of the Scientific Conference, no. 2). Kiyev, Izd-vo AN UkrSSR, 1962. 174 p. 1800 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut mekhaniki.

Resp. Ed.: A. D. Kovalenko, Academician, Academy of Sciences UkrSSR; Ed.: T. K. Remennik; Tech. Ed.: A. M. Lisovets.

PURPOSE: This collection of articles is intended for scientific workers and turbine designers.

Card 1/6

Thermal Stresses (Cont.)

SOV/6085

COVERAGE: The book contains 18 articles dealing with investigations connected with thermal stresses in turbing components. Individual investigations connected

with thermal stresses in turbine components. Individual articles discuss thermoelasticity, thermoplasticity, thermal conductivity, and temperature fields. No personalities are mentioned. References accompany 17 articles. The conference recommended broadening the theoretical and experimental investigations of aerothermoelastic and aerothermoplastic problems, the development of investigations of general problems of the theory of thermoelasticity and thermoplasticity based on the thermodynamic principles of reversible and nonreversible processes, the development of effective calculation methods for thermal stresses taking into account plastic deformations and creep in thin- and thick-walled structural members under stationary and nonstationary operating conditions, the development of experimental-research methods for thermometry and tensiometry in connection with modern operational conditions of mechanical structures, and the broadening of investigations of problems in the thermostrength of structures, especially of those operating under conditions of frequent and sharp temperature changes.

Card 2/6

Thermal Stresses (Cont.)	SOV/6086
Savchenko, V. I. [Kiyev]. Investigation of Thermal Stresses in Turbia Machine Components by the Photoelasticity Method	ne- 106
Dinerman, A. P. [Moscow]. On the Mechanism of the Effect of Accele Regimes of Turbine Startups on the Efficiency of Turbine Disks	erated 117
Gokhfel'd, D. A. [Chelyabinsk]. Some Results of the Experimental Invitions of Adaptability to Thermal Influences	vestiga- 133
Vasil'chenko, G. S. [Moscow]. Effect of the Radial Temperature Grad on the State of Stress of Turbine Disks Operating Under Creep Condit	
(Fridman, L. I. [Kuybyshev]. On the Problem of Investigating Repeated	d
	149
Ulitko, A. F. [Kiyev]. Stationary Problem in Thermal Conductivity for a Cone	•
	156
Card 5/6	

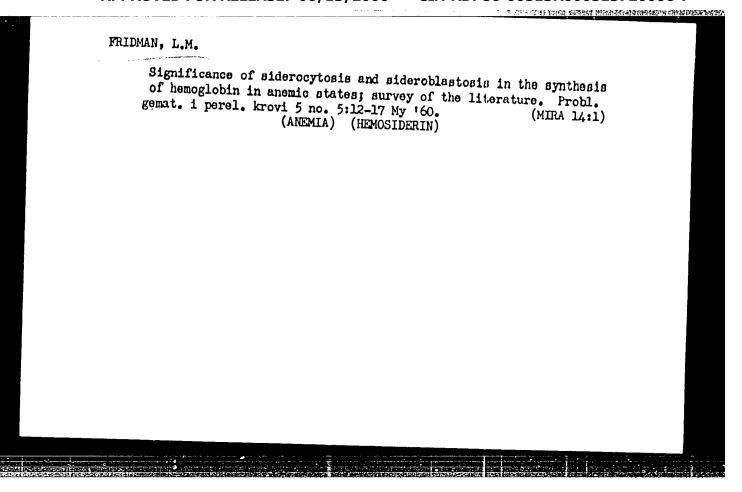
FRIDMAN, L.I.

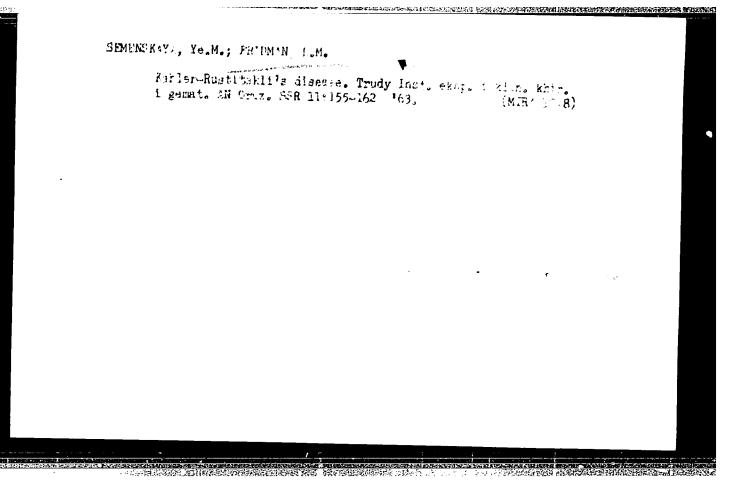
A class of severe luminal poisoning cured by exchange transfusion. Sov. zdrav. Kir. no.4/5:118-119 J1-0'63 (MIRA 17:1)

1. Iz khirurgicheskogo otdeleniya (zav. - K.S.Kovaleva) zheleznodorozhnoy bol'nitsy (nachal'nik A.M.Borisov).

BERG, P.P., doktor tekhn.nauk; BIDULYA, P.N., doktor tekhn.nauk; GRECHIN, V.P., kand.tekhn.nauk; DOVGALEVSKIY, Ya.M., kand.tekhn.nauk; ZHUKOV, A.A., inzh.; ZINOV'YEV, N.V., inzh.; KRYLOV, V.I., inzh.; KUDRYAVTSEV, I.V., doktor tekhn.nauk; LANDA, A.F., doktor tekhn.nauk; LEVI, L.I., kand.tekhn.nauk; MALAKHOVSKIY, G.V., inzh.; MIL'MAN, B.S., kand.tekhn.nauk; SOBOLEV, B.F., kand.tekhn.nauk [deceased]; SKOMOROKHOV, S.A., kand.tekhn.nauk; STEPIN, P.I., kand.tekhn.nauk; USHAKOV, A.D., kand.tekhn.nauk; FRIDMAN, L.M., inzh.; KHRAPKOVSKIY, E.Ya., inzh.; TSYPIN, I.O., kand.tekhn.nauk; SHKOL'NIKOV, E.M., kand.tokhn.nauk; POGODIN-ALEKSEYEV, G.I., prof., doktor tekhn.nauk, red.toma; LANDA, A.F., prof., doktor tekhn.nauk, red.toma; RYBAKOVA, V.I., inzh., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Handbook on materials used in the machinery industry] Spravochnik po mashinostroitel'nym materialam; v chetyrekh tomakh. Pod red. G.I.Pogodina-Alekseeva. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. Vol.3. [Cast iron] Chugun. Red.toma N.F.Bolkhovitov i A.F.Landa. 1959. 359 p. (MIRA 13:1)





L 23308-65 EWT(d)/TDB(JJ)/BXT/EED-2/EWP(1) Po-4/Pq-4/Pg-4/Pk-4 IJP(c)
ACCESSION NR: AR5002281 BB/GG S/0044/64/000/010/V022/V022

SOURCE: Ref. zh. Matematika, Abs. 10V154

AUTHOR: Fridman, L. M.

13

TITLE: Teaching algorithms of recognition

CITED SOURCE: Izv. Akad. ped. nauk RSFSR, vyp. 129, 1963, 125-132

TOPIC TAGS: teaching algorithm, recognition algorithm, programmed instruction, recognition algorithm type, coefficient of complexity

TRANSLATION: One of the important elements of programmed instruction are the socalled algorithms of recognition whose mastering is one of the problems of teaching. The author distinguishes two types of recognition algorithms, determining and classifying. By means of the first, the article under inspection is determined as belonging to a certain set; classifying algorithms afford the possibility of determining that the given article belongs to one of the many possible species of these articles. The algorithms of recognition of logically determined articles

L 23308-65

ACCESSION NR: AR5002281

0

are discussed, in particular the case where the species-specific signs are related or unrelated to each other. For an estimate of the algorithm steps and subsequently the algorithm as a whole, a coefficient of complexity is introduced. Its value is determined experimentally or selected on the basis of finite considerations. G. Maslova

SUB CODE: DP

ENCL: 00

Card 2/2

FRIDMAH, L.W. (Krasnoyarsk)

Requirements for solving geometrical problems by computation.

Mat. v shkole no.4:7-19 J1-Ag '55. (MLRA 8:9)

(Geometry--Problems, exercises, etc.)

FRIDMAN, L.M. (Krasneyarsk)

I.D. Ushinskii on teaching arithmetic. Mat. v shkole ne.1:
12-14 Ja-F *56. (MIRA 9:4)

(Arithmetic--Study and teaching)

EFFICA, L. W.: "The correcte case real stead recistance of erythrecates in receive state re." door isn State Publisher Land Rane for Land Linear erature. Thillies State Publical Inst. Thillies, legs. (Discordation for the degree of Condidat Carle Scale Science.)

S0: Knichnaya Letopic', he 20, 1930, Loccou.

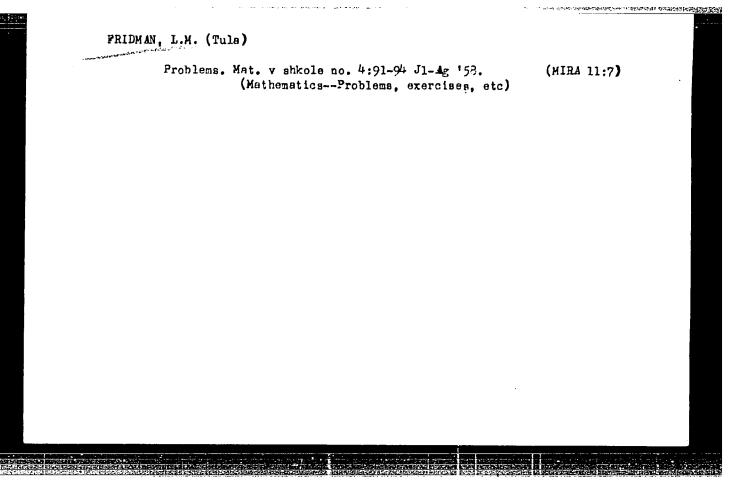
FRIDMAN, L.M. (Tula).

Some results and imminent problems. Mat.v shkole no.1:18-23 Ja-F '57.
(Mathematics--Periodicals)

(MLRA 10:2)

FRIDMAN, L.M. (Tula).

Vladimir Afanas'evich Sirotinin; obituary. Mat. v shkole no.3:93-94 My-Je '57. (MLRA 10:6)
(Sirotinin, Vladimir Afanas'evich, 1891-1956)



FRIDMAN, L.M. COUNTRY : USSR CATEGORY : Human and Animal Physiology, Blood AB3. JOUR. : RZhPhol., No. 5 1959, No. 21970 ROHTUA :Fridman, L.M. :Academy of Sciences of the Georgian SSR # INS). :Osmotic and Mechanical Resistance of Erythrocytes TITLE in Anemic States. CRIG. PUB. : Sakartvelos SSR Metsniyerebata (Akademiis moambe, 1957, 19, No. 2, 225--250 (Scobstich. AN GruzSSR) The investigations were performed upon 1646 ABSTRACT healthy subjects, 134 patients with anemia and 16 dogs. Osmotic and mechanical resistance in peripheral blood and marrow punctures were studied. The naximal and minimal limits of normal resistance were determined by investigating healthy subjects of both sexes and of various ages. In the majority of cases of hyperchromic anomia (40patients), an increase in esmotic resistance and a diminution in mechanical resistance were detected. Similar changes were observed in hypochromic anemia (76 patients), but they were less marked. In addition Cand: + INST. EXPTL. + CLINICAL SURGERY + HEMATOLOGY

COUNTRY : USSR T CATEGORY ABS. JOUR. : MahBiol., No. 5 1959, No. 21970 AUTHOR INST. TITLE ORIG. PUB. : the osmotic resistance of the erythrocytes of the ABSTRACT bone marrow is grater than that of the erythrocytes of the peripheral blood. Post hemorrhagic anemia was produced in dogs by bleeding large quantities. Peripheral nerve stimulation was performed in some of the animals by a Speransky operation. The observed deviations in osmotic fragility and form of the crythvocytes were supported by clinical observations. During the development of experimental posthemorrhagic anemia, there occurs a simultaneous flattening of the shape of the erythrocytes. There is a Card: 3/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513720006-7"
COUNTY : USSR
CATEGORY:

ARS. JOUR. : RAMBIOL., No. 5 1259, No. 21970

AUTHOR :
INST. :
TITLE :

OPIG. FUB. :

ABSTRACT : fixed relationship between the changes in resistance and in the shape of theerythrocytes.--E.R.Palcy

Card: 4/4

T-41

FRIDMAN, Lyubov' Moiseyevna, prof.; YANKOSHVILI, TS.A., red.izc-va; BOKERIYA, E.N., tekhn. red.

[Osmotic and mechanical resistance of erythrocytes in anemic states] Osmoticheskaia i mekhanicheskaia rezistentnost' eritrotsitov pri anemicheskikh sostoianiiakh. Tbilisi, Izd-vo AN Gruz.SSR, 1963. 166 p. (MIRA 17:1)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513720006-7

L 11,509-66 EWT(m)/FWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b) LIP(c) E/W/JD/WM ACC NR: AP6003283 (N) SOURCE CODE: UR/0135/66/000/001/0018/0019 42

AUTHOR: Nikonov, I. P. (Candidate of technical sciences); Fridman, L. N. (Engineer), Khovanets, V. K. (Engineer)

ORG: Ural Polytechnic Institute im. S. M. Kirov (Ural'skiy politekhnicheskiy institut

TITLE: Consumable-electrode three-phase arc welding of AMts aluminum alloy plate

SOURCE: Svarochnoye proizvodstvo, no. 1, 1966, 18-19

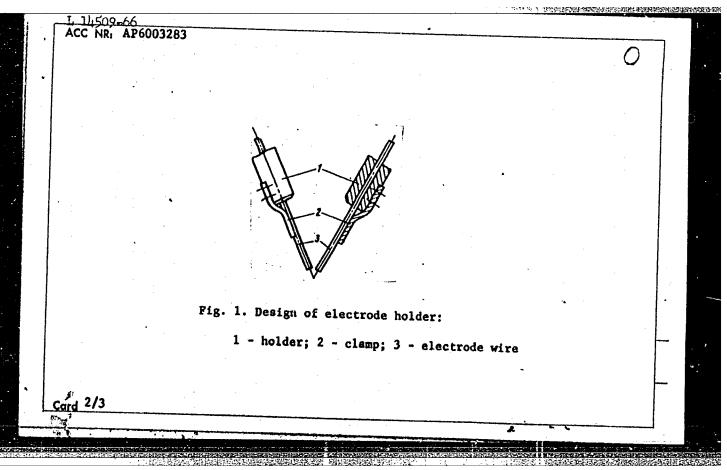
TOPIC TAGS: arc welding, aluminum alloy, welding electrode, power welding equipment, fabricated structural metal/ AMts aluminum alloy

ABSTRACT: The results of an investigation of this method of welding 25-30 mm thick plate of AMTS aluminum alloy at the Ural Polytechnic Institute are presented. A modernized UPI-UZIM-3 three-phase arc welding installation was used for the experiments; it was fitted with a special electrode holder including a clamp for keeping the electrode in a properly centered position (Fig. 1), and a low-voltage three-phase transformer as the power source. Specifications: electrode diameter 2 mm; welding current 350-500 a; arc voltage 30-37 v, electrode feed rate 380-440 m/hr; welding rate 8-12 m/hr; flux thickness 13-14 mm. The electrode was also made of AMTs aluminum alloy (1.3% Mn, 0.37% Fe, 0.232% Si). Mechanical tests showed that the stress-rupture

Card 1/3

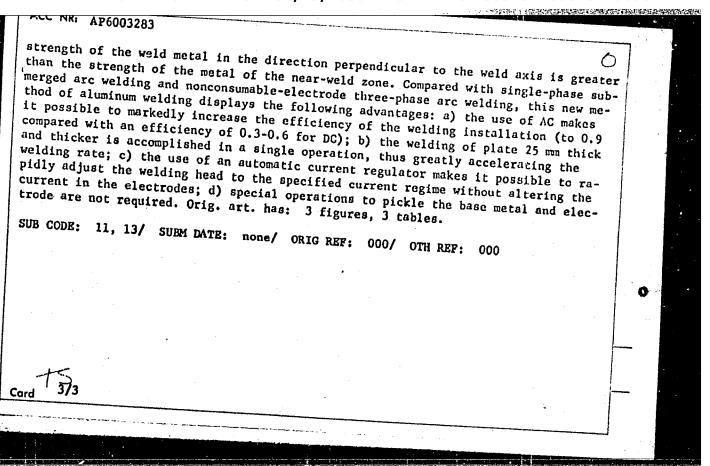
UDC: 621.791.75:669.715

2



"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513720006-7



NIKONOV, I.P.; FRIDMAN, L.N.; GEYNRIKHSDORF, N.G.

Some indices of three-phase welding of aluminum and its alloys by consumable electrode and with flux. Avtom. svar. 18 no.8251-53 Ag *165. (MIRA 18:11)

1. Ural'skiy politekhnioheskiy institut imeni Kircva.

L 65085-65 EWT(B)/EWP(V)/T/EWP(L)/EWP(L)/EWP(L)/EWA(c) JD/HM/HW IJP(c) UR/0125/65/000/008/0051/0053 ACCESSION NR: AP5021225 621.791.016:546.621 AUTHOR: Nikonov, I.P. (Engineer); Fridman, L.N. (Engineer); Geynrikhedorf, N.G. (Engineer) (Engineer) TITLE: Jertain indicators of the three-phase consumable-electrode arc welding of aluminum and its alloys 17,4455 SOURCE: Avtomaticheskaya svarka, no. 8, 1965, 51-53 TOPIC TAGS: consumable electrode arc welding, three-phase arc welding, single phase are welding, fusion welding, build-up factor, aluminum alloy, power requirement ABSTRACT: In three-phase arc welding, welding productivity is characterized by the amount of metal welded per time unit. The three-phase arc welding of aluminum and its alloys by means of a consumable electrode is characterized by the following technical and economic indicators: the build-up factor Kb, the fusion depth factor Kf, the overall productivity of the build-up and fusion processes Pov, the percentage of loss and spatter, the unit power consumption per kg of built-up metal Ke, per kg of weld Ke.w, and per meter of weld Ke.m. In three-phase welding with elec-

ACCESSION NR: APSO21225 trode wire of 2-3 mm diameter Kg = 10.65-12.0 g/a-hr compared with Kg = 8-9.4 g/a-hr for single phase welding with electrodes of the same diameter. Thus, in threephase welding K, is generally 30% higher than in single-phase welding. The power requirement of three-phase welding is much smaller than that of single-phase welding, owing to the use of alternating three-phase current instead of direct current. Similarly, in three-phase welding of 25 mm thick sheets the welding rate is 24 kg/m against 18 kg/hr for single-phase welding, and the build-up factor in three-phase welding is 8 g/a-hr against 6 g/a-hr for single-phase welding. In short, this comparison of two methods of consumable-electrode arc welding confirms the technical and economic advantages of three-phase welding over single-phase welding. Orig. art. has: 4 figures, 1 table, 4 formulas. ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. Kirova (Ural Polytechnic Institute) SUB CODE: IE, MM ENCL: 27Mar65 SUBMITTED: OTHER: 000 NO REF SOV: 003 MER <u>Card</u> 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513720006-7"

FRIDMAN,			=	
Additional to the state of the	33 38 E R 5 58 8	14 4 7 7	87 32 153 153 153 153	;
Absolute mank Engathship 653. Institut yelernoy finith Stademiym mank Engathship 653. Institut yelernoy finith Stademiym mank Engathship 653. Institut yelernoy finith Stademy of the institute of Funith Statemy of Stademy of Sciences (Assorting for Mendium Parists, English 3.5.R. Academy of Sciences Man-Ata, End-wo As Ensathship 553, 1999, 159 p. 1,000 copies printed Man-Ata, End-wo As Ensathship 553, 1999, 159 p. 1,000 copies printed Orizona, 1.1. Descriptor, 1.0. Descriptor, Entlored Board; 1.0. Grimma, L.I. Descriptor, 1.0. Descriptor, D.E. Enigorial Board; 1.0. S.E. Enimia, A.A. Freegrabor, and 20. S. Salthoyve. S.E. Enimia, A.A. Freegrabor, and 20. S. Salthoyve. Region laboratory personal, segmestry tremittles, and also scularis and apprential mestallurg and physics of minls. COURANCE: The collection contains contains on the sale forth and phase states is a vide range of tamperstances done to selling goint and set forth and fortural mestral on tamperstances on copper, sites, and driver allow. All properties on passonal of security of as now, and propules on passona for All paris or opper, sites, and driver allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first or opper, all all and other allow. The first of the first of all all all all all all all all all al	preserved plasticity of solid solutions are proposed as a state of each article. The second article. The second article. Friedmann, A.A., and A.L.A. Landhar. Study of the Mechanical Properties of Principals. E. Chang is planticity and strength of breases with phosphorous, and allowed the study of the Mechanical Properties of Properties of Properties of Properties of Properties of Sample is planticity and strength of breases with phosphorous, and action of the state of the second of t	Parisions Fraction A.A. The Relationable of Flatifity to Microstructure and Prescriber, A.A. The Relationable of Flatifity to Microstructure and Prescriber of Milors in the Liquid-Solid (Sam-Liquid) State of Properties of Alloys in the Liquid-Solid (Sam-Liquid) State of Properties and Milors Market on the Eost Samples of Properties of Alloys Hear the Bolidae Point. Fighter, A.Y., and Mil. Zopples—The Temperature Confident of Heartschip Matistant Margania Alloys Fighter, A.Y., and Mil. Zopples—The Temperature Confident of Heartschip Matistant Margania Alloys Fighter, A.Y., one Milor of Preparing Electron Microscope Perisons	Presquiry, A.A., v.v. Build, and Lim. A. Mirracord Destrication of Aloys and genes Bestite Pressure During the Son Holling of Aloys and Bester During the Son Holling of Aloys and Joint Transcriptor, A.A. On the Peruliarities of "Plantic Friction" Presquiry, A.A. On the Peruliarities of "Plantic Friction" Presquiry, A.A., and F.S. Sakharova. The Structure of Linc Base Aloys Sprikar, A.V., M.I. Tayin, and Lib. Editor. The Praise of Linc Base Marketic Presants in Series of Lincat Mirrary Mirrary. The Praise of Lincate Mirrary of Linc Base Elements During the Sprinter North Structure of Silters From.	

PRESNYAKOV, A.A.; CHERVYAKOVA, V.V.; NOVIKOV, A.V.; FRIDMAN, L.P.

Optimum procedure for the hot working of IS59-1 brass. TSvet.
met. 35 no.8:82-83 Ag '62.
(Brass) (Rolling (Metalwork))

NOVIKOV, A.V.; CHERVYAKOVA, V.V.; FRIDMAN, L.F.

Effect of complex additives on the usefulness of LS59-1 brass.

Trudy Inst. met. 1 obog. AN Kazakh. SSR 7:101-104 '63.

(MIRA 17:6)

DUISEMALITEV, U.K.; NOVIKOV, A.V.; thereviatova, V.V.; FRIDMAN, L.P.

Increasing the technical and economic indices in the rolling of IS59-1 brass with complex additives in industrial conditions.

Trudy Inst. met. 1 obog. AN Kezakh. SSR 7:105-111 '63.

(MIRA 17:6)

LEVKOVSKIY, Aleksey Ivanovich: D'YAKOV, A.M., otv.red.; TUZMUKHAMEDOV,R.A., red.; FRIDMAN, L.Sh., red.; YAZLOVSKAYA, E.Sh., tekhn. red.

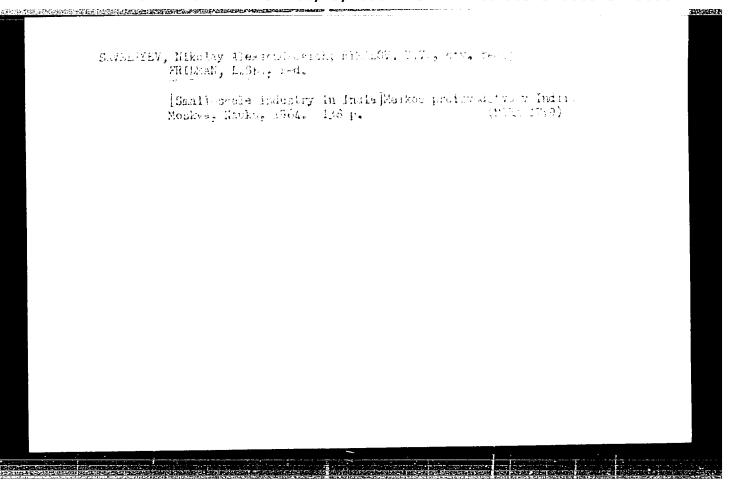
[Characteristics of the development of capitalism in India]
Osobennosti razvitiia kapitalizma v Indii. Moskva, Izd-vo
vostochnoi lit-ry, 1963. 587 p. (MIRA 16:6)

(India---Economic conditions)

LEVKOVSKIY, Aleksey Ivanovich; D'YAKOV, A.M., otv. red.;
TUZMUKHAMEDOV, R.A., red.; FRIDMAN, L.Sh., red.;
YAZLOVSKAYA, E.Sh., tekhn. red.

[Chacteristics of the development of capitalism in India]
Osobennosti razvitiia kapitalizma v India. Moskva, Izd-vo
vostochnoi lit-ry, 1963. 588 p. (MIRA 16:4)
(India--Capitalism)

TALYZIN, Fedor Fedorovich; DYYAKOV, A.N., otm., red.; FRIPMAN, L.Sh., red. [Through India and Coylou] Pr India i Toellona. Moskva, Mauke. 1964. 130 p. (MIRA 18:1) Mauke, 1964. 130 p.



GOGOLIDZE, A.S.: OGNEV, G.I.; FRIDMAN, L.Yu.; BUYDENKO, P.A.; LESNYKH, V.A.; TARARYKO, P.M.; YURILIN, G.M.

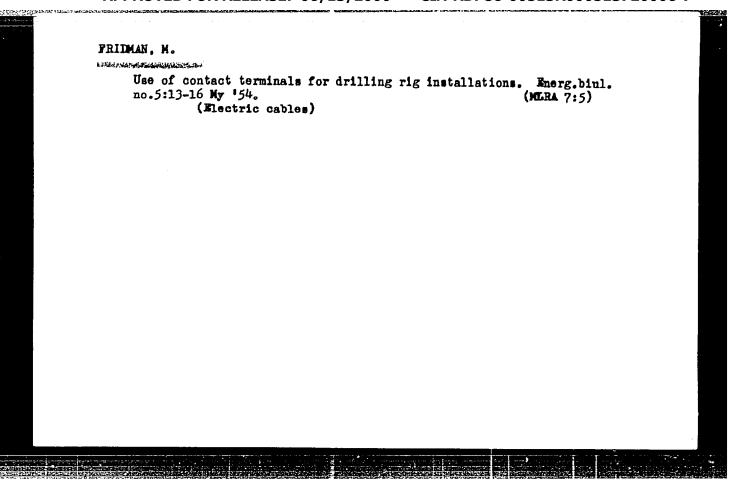
Making 541 m. of crosscuts in one month. Ugol' 40 no.12: 17-19 D'65. (MIRA 18:12)

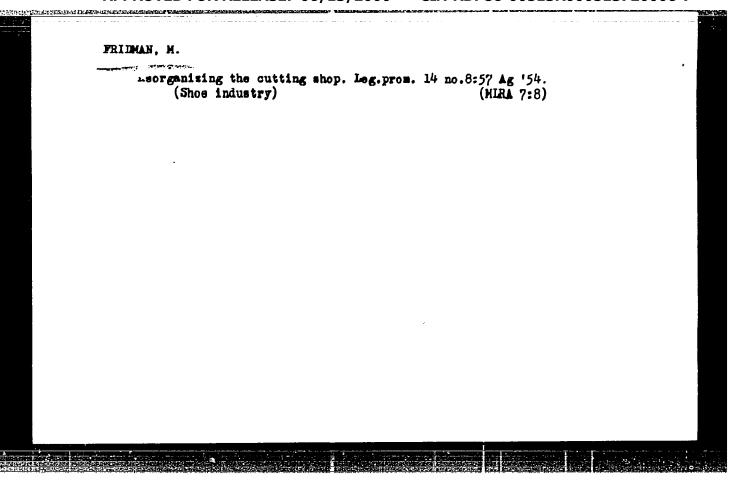
l. Shakhta im. XXII s"yezda KPSS tresta Kadiyevugol! (for Gogolidze, Ognev, Fridman). 2. Trest Kadiyevugol! (for Buydenko). 3. Kadiyevskiy filial Kazakhskogo gorno-metaliurgi-cheskogo instituta (for Lesnykh, Tararyko, Yurilin).

SAKADA, Ya.N.; MUKHIN, N.S.; KAPTAN, N.L.; FRIDMAN, M.

Some proposals for improvement in dental prosthesis technics. Stomatologiia 38 no.5:78 S-0 159. (MIRA 13:3)

1. Zaveduyushchiy subeprotesnoy laboratoriyey Moskovskogo meditsinskogo stomatologicheskogo instituta. (DENTAL PROSTHESIS)





GORBATOV, A., inshener; SEVELIBOV, P., inshener; FRIDMAN, M., inshener.

Mechanism for heisting bexes. Miss.ind.SSSR 26 no.6:53 '55.
(Heisting machinery)

(MLEA 9:2)

WARE

Light cant	ilever cra Cranes, de	ne. Stroit rric ks, et	tel' no.7:1	1 Л '58.	(MIRA 11:9)	

SHVETSOV, A.,,inzh.; FRIDMAN, M., inzh.; ARYASOV, I., inzh.; CHEGOTARENKO, B.

Brief news. Stroitel' no.7:31 Jl '60. (MIRA 13:8)

(Construction industry)

FRIDMAN, M. Practice of using centralized payments in the "Murmanrybatroi" Trust. Fin. SSSR 21 no.11;74-75 N '60. (MIRA 13;11) 1. Zamestitel' nachal'nika planovo-finansovogo otdela tresta "Murmanrybatroy." (Clearinghouse) (Murmansk—Construction industry—Firance)

YEVSEYEV, P.; FRIDMAN, M.

A control of the contro

From worker to senior foreman. Metallurg 7 no.5:34-35 My 162. (MIRA 15:5) 1. Chleny obshchestvennoy redkollegii mnogotirazhnoy gazety zavoda imeni Petrovskogo "Tribuna metallurga".
(Rolling (Metalwork))

KARAULOV, Aleksey Nikolayevich; FRIDMAN, Moisey Aleksandrovich; ZOLOTOV, S.S., otv.red.; ALEKSEYEVA, M.H., red.; DVORAKOVSKAYA, A.A., tekhn.red.; KONTOROVICH, A.I., tekhn.red.

[Shipbuilding drawing] Sudostroitel noe cherchenie. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1958. 120 p.
(MIRA 13:4)

(Shipbuilding) (Mechanical drawing)

```
"Desired this has labiled a." Sold Typ-Lat Lat,
Leningrai State and great Inst, Leningrai, 1954. (Lath t,
Cot 5%)

Corvey of Scientific and Rechard Dissectations Laterial at
(COSE migher Educational Institutions (La)

Sci. Soc. No. 471, 5 May 55
```

FRIDMAN, M.A.

Bemicommutative multiplications. Dokl. AM SSSR. 109 no.4:710-712
Ag 1956. (MERA 9:10)

1. Glamovskiy-gosudarstvennyy pedagogicheskiy institut imeni V.G. Korolenko. Predstavleno akademikom V.I.Smirnovym. (Groups. Theory of)

	VEridman M. A. On semi-commutat		WALL FROM
	Dokl. Akad St. ik sSSE hada at (Russian	99 - mi Třio-112.	
	The author cousting of a con-		
	products for groups that the first or a	and the following	· Tribles in a
	manner. Let II be a crea of group	instance and with	
	inger var de maria de la companya d La companya de la co	r — mainms , , are	
	welling still a sign of the state of	ار منظم من الأنه المراجعة الإنجابية ا	A STATE OF THE STA
	given A and B and C there exists C in the B such that $f(L) = C$		to the engine at the market
	called a semi-commutative Live to	a properties Laboration d'ac	
	$G = (A_1)_{1 \in \mathbb{N}} \text{ (iii) the set of relations } L^{-1}$	لِلْنَانِ رَضَّ عِنْ اللَّهِ عِلَيْكِ اللَّهِ عِلَيْكِ اللَّهِ عِلَيْكِ اللَّهِ عِلَيْكِ اللَّهِ عَلَيْكِ	्रात्मारा । विकासिकामाराज्यास्य । जन्म स्वरूपार । वि
	$\Psi(A_i)$ is the set of all relations become	Fire(A.)OY, where	
	and the six of the second	ு () () () () () () () () () (ាំស្រែក្រុម ប៉ាស្រែក្រុម <u>ម៉ា</u> ន់ស្រែក្រុម
	+ 1 + 5		
	i		
		•	
	reveral theorems are store or an		•
	rall products of the composition of respect to the Toptoduct Number of	objections of Pr	
	products are indicated.	L 1_0est_	
			The state of the s
enter			0 M
in a second seco			
	₹ ,	75	क्याप्टरिय प्रत्ये। श्रीवास्त्री (१)

15

16(1) AUTHOR:

Fridman, Y.A.

307/42-14-3-14/22

TITLE:

On a Question on Completely Regular Operations on a Class of

Groups

PERIODICAL:

Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 3,

pp 181 - 183 (USSR)

ABSTRACT:

Let \triangle be an arbitrary completely regular operation and $\mathbb{A} \in \Sigma$ $\triangle A_{\mathcal{A}}$ the result of this operation for the groups $A_{\mathcal{A}}$ ($\mathcal{A} \in \Sigma$). A.I. Mal'tsev posed the question: Does there exist a \triangle (different from the formation of direct or free products of groups), so that for every subgroup $A_{\mathcal{A}}$ of $A_{\mathcal{A}}$ the subgroup $A_{\mathcal{A}}$ of the group $A_{\mathcal{A}}$ is decomposed into a given completely regular product of the subgroups $A_{\mathcal{A}}$? (see O.N. Golovin / Ref 4.7). In the present paper the author shows that among all infinitely associative, semicommutative multiplications on the class

of all groups the direct and free formation of products are the only multiplications with the property mentioned above.

Cara 1/2

On a Question on Completely Regular Operations on a Class of Groups

SOV/42-14-3-14/22

A.G. Kurosh and Ye.S. Lyapin are mentioned in the paper. The author proves 1 theorem and 1 lemma in the notations of / Ref 7 /.

There are 10 regerences, 8 of which are Soviet, 1 English,

and 1 American.

SUBMITTED:

April 8, 1957

Card 2/2

GREEKS

(lath	The 14290P-6 semiautomatic six-prindle lathe. Biul.tel Gos.nauchissl.inst.nauch. i tekh.inform. no.7:32-34 (lathes)			

FRIDMAN, H.I.

Foreign body of the male urethra and urinary bladder. Khirurgiia, Moskva 34 no.11:125-127 N '58. (MIRA 12:1)

l. Iz 1-y khirurgicheskoy klinika (zav. - prof. S.V. Lobachev) Instituta skoroy pomoshchi im. N.V. Sklifosovskogo (dir. - zasluzhennyy vrach USSR M.M. Tarasov, glavnyy khirurg - prof. B.A. Petrov)

(UHETHRA, for. body

wire thread, in male (Rus))

(BIADDER, for. body

same)

FRIDMAN, M.I.; LEONOV, A.S.; MAYSTRENKO, A.M.

Eliminating the leakages of blast furnace gas through the dividing wall of regenerators. Koks i khim. no.2:29-30 '62. (MIRA 15:3)

1. Koksokhimstantsiya (for Fridman, Leonov). 2. Dneprodzerzhinskiy koksokhimicheskiy zavod (for Maystrenko). (Coke ovens)

FRIDMAN, M. I.

N/5 755.214

FRIDMAN, M. I.

ELEKTROVOZNAYA TYAGA I YEYE EFEEKTIVNOST! (ELECTRIFICATION AND ITS EFFECTIVENESS BY I. I. GOLOVANOV (1) M. I. FRIDMAN. MOSKVA, IRANSZHELDORIZDAT, 1956.

50 P. ILLUS., DIACRS., MAP TABLES (POPULYARNAYA BIBLIOTECHKA PO ECONOMIKE ZHELEZNODOROZHNOGO TRANSPORTA)

FRIDMAN, M.I., otv. za vypusk

[Reilroad construction] Stroitel'stvo zheleznykh dorog. Moskva, 1957. 33 p. (Informatsiia o zarubezhnoi tekhnike, no.4)

(MIRA 13:1)

1. TSentral'nyy dom tekhniki zheleznodorozhnogo transporta, Moscow. (Reilroads--Construction)

HOVIKOV, P.I.; SECUNCOV, P.L.; FRIDMAN, M.I.; KISSLEV, V.Z., inzh., otvetstvennyy red.; LEZHMEVA, Ye.I., red. izd-vs; EL'KIHD, V.D., tekhn.red.

[ZII-127 interurban motorbus; instructions for operation] Mezhdugorodnyi avtobus ZII-127; instruktsiis po eksplustatsii. Moskva, Gos. nauchno-tekhn. izd-vo meshinostroit. lit-ry, 1957. 233 p. (HIRA 11:5)

1. Moskovskiy avtomobil'nyy zavod. 2. Yaroslavskiy avtozavod (for Novikov). 3. Machal'nik byuro avtobusov Moskovskogo abtomohil'nogo zavoda imeni Likhacheva (for Kiselev)

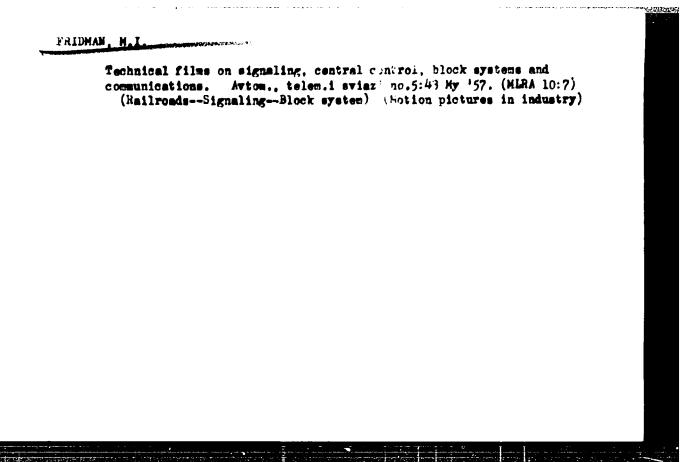
(Motorbuses)

VASIL'YEV, V.S.; FRIDMAN, M.I.

In the Central House of Technology. Avtom., telem. i sviaz' no.4:45-47 Ap '57. (MLRA 10:5)

1. Nachal'nik otdela massovykh meropriyatiy tekhnicheskoy propagandy TSentral'nogo doma tekhniki (for Vasil'yev). 2. Starshiy redaktor metodicheskogo otdela TSentral'nogo doma tekhniki (for Fridman).

(Railroads--Equipment and supplies)



PETROY, A.P.; PRIPOL'TSEY, V.A.; SHUL'GA, V.Ya.; FRIDMAN, M.I., etv. za vypusk; BOBROYA, Ye.N., tekhn.red.

[Railroads of India] Zhelesnye dorogi Indii. Moskva, 1958. 65 p. (Informatsiia e sarubeshnoi tekhnike, no.5) (MIRA 12:6)

l. Delegaty IV sessii Podkomiteta po zheleznodorozhnomu transportu Ekonomicheskoy komissii dlya stran Azii i Dal'nego Vostoka (for Petrov, Pripol'tsev, Shul'ga).

(India---Railroads)

FRIDMAN, M.I., otvetstvennyy za vypusk; BOBROVA, Ye.N., tekhn. red.

[Annotated catalog of technical films on railroad transportation]
Annotirovannyi katalog tekhnicheskikh kinofil mov po zheleznodorozhnomi transportu, Izd. 3., ispr. i dop. Moskva, Gos. transp.
zhel-dor. izd-vo, 1958. 169 p. (MIRA 11:10)

1. TSentral'nyy dom tekhniki *heleznodoroshnogo transporta.
(Railroads---Film catalogs)

SOLOVBYCHIK, M.Z.; FRIDMAN, M.I.; KHOKHLOV, L.P.; HOVIKOVA, K.I., red.;
KHITROV, P.A., tekhn. red.

[Passengor handbook] Spravochnik passazhira. [Moskva] Transzheldorizdat, 1958. 268 p. (MIRA 11:9)

(Transportation)

PILETSKIY, V.A.; SOLOVEYCHIK, M.Z.; KAMINSKIY, Yu.K.; LUTSENKO, I.G.;
VABADZHANOVA, V.I.; KLYSHNIKOV, P.L.; PRIDMAH M.I.; KHITHOV,
P.A., tekhn.red.

[Traveler's guidebook] Spravochnik passazhira. Moskva, Gos.
transp.zhel-dor.izd-vo, 1959. 289 p. (MIRA 12:11)

(Guidebooks) (Transportation)